MMM MMM MMM MMMMM MMMMMM MMMMMM	MM 000	00 NNN 00 NNN 000 NNN 000 NNN	NNN NNN NNN NNN		000000000 000000000 000000000 000 000	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR
MMMM MMMM		000 NNN	NNN	III	000 000	RRR RRR
	MM 000	000 NNNNN		III	000 000	RRR RRR
	MM 000	000 NNNNN		III	000 000	RRR RRR
	MM 000	000 NNNNN		TTT	000 000	RRR RRR
	MM 000	000 NNN	NNN NNN	TTT	000 000	RRRRRRRRRRR
	MM 000	000 NNN	NNN NNN	TTT	000 000	RRRRRRRRRRR
	MM 000	000 NNN	NNN NNN	TTT	000 000	RRRRRRRRRRR
	MM 000	NNN GOO	NNNNNN	TTT	000 000	RRR RRR
	MM 000	000 NNN	NNNNNN	TTT	000 000	RRR RRR
	MM 000	000 NNN	NNNNNN	TTT	000 000	RRR RRR
MMM M	MM 000	000 NNN	NNN	TTT	000 000	RRR RRR
MMM M	MM 000	000 NNN	NNN	TTT	000 000	RRR RRR
MMM M	MM 000	000 NNN	NNN	ŤŤŤ	000 000	RRR RRR
	MM 00000000		NNN	ŤŤŤ	000000000	RRR RRR
	MM 00000000		NNN	tit	00000000	RRR RRR
	MM 0000000		NNN	ttt	000000000	RRR RRR

STEPPELL PLUS PROPERTY PROPERT

	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	MM	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AAAAAA AA AA AA AA		
		\$				

Page

		16-Sep-1984 02:18:37 VAX-11 B 14-Sep-1984 12:45:05 [MONTOR.]	liss-32 v4.0-742 SRCJTEMPLATE.B32;1	Page (1
058 1 !		Fix positioning of data lines for homogeneous classes.		
	v03-008	PRS1006 Paul R. Senn 17-FEB-1984 Add support for 'computed' items	14:00	
063 1 064 1	v03-008	TLC1052 Thomas L. Cafarella 17-Feb-1984 Add multi-file summary capability.	11:00	
067 1 !	v03-007	PRS1005 Paul R. Senn 13-JAN-1983 Allow flexible spacing between screen items	10:00	
069 1 070 1	v03-006	SPC0006 Stephen P. Carney 01-Jul-1983 Change some RWxxx (resource wait state) codes.	09:00	
071 1 072 1 073 1	v03-005	TLC1035 Thomas L. Cafarella 06-Jun-1983 Add homogeneous class type and DISK class.	15:00	
074 1 075 1 076 1	v03-004	TLC1028 Thomas L. Cafarella 14-Apr-1983 Add interactive user interface.	16:00	
079 1 !	v03-004	SPC0001 Stephen P. Carney 25-Mar-1983 Add RWxxx and MUTEX states in place of MWAIT state.	15:00	
080 1 1 081 1 1 082 1 1	v03-003	TLC1020 Thomas L. Cafarella 1-Jul-1982 Remove semi-colon to eliminate BLISS INFO message.	15:00	
084 1 1	v03-002	TLC1010 Thomas L. Cafarella 29-Mar-1982 Eliminate lower-case "a" strings from summary bar graphs	15:00	
086 1 ! 087 1 ! 088 1 !	v03-001	TLC1005 Thomas L. Cafarella 25-Mar-1982 Alter vertical spacing for classes with 13 items.	17:00	
	0058 1 1 1 1 1 1 1 1 1 1	0059 1	Fix positioning of data lines for homogeneous classes. 1	V03-008 PRS1006

TEN

55 5A

21 2E

```
TEMPLATE
VO4-000
                                                                                                                16-Sep-1984 02:18:37
14-Sep-1984 12:45:05
                                                                                                                                                          VAX-11 Bliss-32 V4.0-742 [MONTOR.SRC]TEMPLATE.B32;1
                                                                                                                                                                                                                                   (2)
     TABLE OF CONTENTS:
                                         FORWARD ROUTINE OUTPUT , POSITION , TEMPLATE ;
                                                                                                     output a counted string to the SCRPKG call SCRPKG to position cursor build and output display templates
                                             INCLUDE FILES:
                                         LIBRARY 'SYS$LIBRARY:LIB.L32';
REQUIRE 'MONDEFREQ';
REQUIRE 'DSPDEFREQ';
                                                                                                     system service macros and user definitions private MONITOR control block definitions item numbers defined here
                              244
245
246
247
248
250
251
                                                                                                  ! define EMUL VAX hardware function
                                          BUILTIN EMUL :
                                             COMPILE TIME VARIABLES
                                         COMPILETIME
RWAIT_COUNT = 0 . ! counter for the number of RWAITs being defined
RWAIT_DEFINED = RSN$_MAX ; ! number of RSN$_* wait codes defined in LIB.L32
                                             MACROS:
                                         MACRO
                                             Counted ascii string macros
                            1263
1264
1265
1266
1267
                                         CSTRING[] = (UPLIT BYTE(%CHARCOUNT(%STRING(%REMAINING)),
%STRING(%REMAINING)))%,
                                                        The RWAIT_CSTRING macro is the CSTRING macro plus a counter to keep track of times it was called (how many RWAITS have been defined)
                                         RWAIT_CSTRING[] = %ASSIGN(RWAIT_COUNT, RWAIT_COUNT+1)
(UPLIT_BYTE(%CHARCOUNT(%STRING(%REMAINING)),
                                                                      %STRING(%REMAINING)) )%;
                                             EQUATED SYMBOLS:
                             278
279
280
                                         LITERAL
                            1281
1282
                                                        BELL = 7 .
```

```
TEMPLATE
VO4-000
                                                                                                                                      16-Sep-1984 02:18:37
14-Sep-1984 12:45:05
                                                                                                                                                                                       VAX-11 Bliss-32 V4.0-742 [MONTOR.SRC]TEMPLATE.B32;1
                                                                                                                                                                                                                                                                   Page
                                                                                                                                                                                                                                                                             (2)
                                                                  ALTSET = ('F' ^ 8) + ESC,

CR = 13,

CURSOR = ('Y' ^ 8) + ESC,

ERASE = ('J' ^ 8) + ESC,

ERASEEOL = ('K' ^ 8) + ESC,

FALSE = 0

HOME = ('H' ^ 8) + ESC,

LF = 10,

TRUE = 1;
     1490123345678901234567890123
149012334567890123
1501234567890123
1501234567890123
1501234567890123
1501234567890123
                                   283
285
286
288
288
289
291
                                                                                                                                         alternate graphics set
                                                                                                                                         carriage return
                                                                                                                                         position cursor command erase entire screen erase to end of line
                                                                                                                                        return cursor to top
                                 GLOBAL LITERAL
                                                                  REGSET = ('G' * 8) + ESC :
                                                                                                                                    ! normal graphics set
                                                      OWN STORAGE:
                                                  OWN
                                                                  TOPSTR10: VECTOR[45,BYTE] INITIAL (BYTE(44),BYTE(' [!30W,!30W] !16AC!AC!5<!#UL!>!AC').
                                                                                                      BYTE(ESC), BYTE('F!#*a'), BYTE(ESC), BYTE('G'), BYTE(ESC), BYTE('K'));
                                                     Table of bit vectors which "illustrate" the pattern of data line spacing within the data portion of the display screen. There is one bit vector for each possible number of data items (24). Each bit vector contains 24 bits representing the lines in the data portion of the display screen. A "1" bit means this is a data line; a "0" bit means this is a space. The bits read from right to left; so, for example, the bit representing line 1 is the right-most.
                                                  OWN
                                                                  SCR_PATTERN:
                                                                                                   VECTOR[24,LONG] INITIAL (
                                                                                 data item
                                                                                                                                                                               data items
                                                                                                                                                                               data items
                                                                                                                                                                               data items
                                                                                                                                                                               data items
                                                                                                                                                                               data items
                                                                                                                                                                               data items
      194
195
196
197
                                  328
329
330
                                                                                                                                                                               data items
                                                                                                                                                                               data items
                                                                                                                                                                                data items
                                                                                                                                                                                 data
                                                                                                                                                                                           items
                                  332
333
334
335
336
337
      198
199
200
201
202
203
204
205
                                                                                                                                                                                 data
                                                                                                                                                                                           items
                                                                                                                                                                                 data
                                                                                                                                                                                           items
                                                                                                                                                                                 data
                                                                                                                                                                                           items
                                                                                                                                                                                 data
                                                                                                                                                                                           items
                                                                                                                                                                                 data
                                                                                                                                                                                           items
                                                                                                                                                                                 data
                                                                                                                                                                                           items
                                                                                    LONG(0),
                                                                                                                                                                                 data
                                                                                                                                                                                           items
                                                                                   LONG(0).
                                                                                                                                                                                data
                                                                                                                                                                                           items
```

```
J 4
16-Sep-1984 02:18:37
14-Sep-1984 12:45:05
TEMPLATE
VO4-000
                                                                                                                                                                                                                                                                            VAX-11 Bliss-32 V4.0-742
[MONTOR.SRC]TEMPLATE.B32;1
                                                                                                                                                                                                                                                                                                                                                                                          Page
                                                                                                                         LONG(0),
LONG(0),
LONG(0),
LONG(0),
LONG(0));
                                                                                                                                                                                                                                                                  data items
data items
data items
         data items
                                                                                                                                                                                                                                                                   data items
                                               One of the above longword elements is moved to the 24-bit vector below, based on the number of items in the display. The bit vector is then used to determine whether a line in the data portion of the screen is to be a space (0) or is to contain data (1).
                                                                        OWN
                                                                                                  SCR_DATA_LINE: BITVECTOR[24];
                                                                              Messages
                                                                        BIND
                                                                       TABSTR = CSTRING(' !7UL.!2ZL !7UL.!2ZL !7UL.!2ZL !7UL.!2ZL'),
TABSTR_PC = CSTRING(' !7UL.!1ZL !7UL.!1ZL !7UL.!1ZL !7UL.!1ZL !7UL.!1ZL'),
COUNTSTR = UPLIT BYTE ('!7<!#UL!>'),
CRSTR = CSTRING(%CHAR(CR)),
CLRSTR = CSTRING(%CHAR(ESC),'H',%CHAR(ESC),'J'),
DELSTR = CSTRING(%CHAR(ESC),'J'),
GRAPHICS_ON = CSTRING(%CHAR(ESC),'J'),
GRAPHICS_OFF = CSTRING(%CHAR(ESC),'1'),
HOMESTR = CSTRING(%CHAR(ESC),'H'),
                                                                       LFSTR = CSTRING(%CHAR(LF)),
NLSTR = CSTRING(%CHAR(CR), %CHAR(LF)),
REPTSTR = UPLIT BYTE('!#*'),
SETVT55 = CSTRING( %CHAR(ESC) '1' , 'A' ,
%CHAR(%O'57') , %CHAR(ESC) , '2' ),
TOPSTR20 = CSTRING(%CHAR(ESC), 'K'),
VHSTSTR20 = CSTRING( '!UL' );
                                                                                                                                                                                                              %CHAR(%0'77') , 'I' ,
                                                 1380
1381
1382
1383
1384
1386
1388
1388
1399
1399
1399
1396
                                                                              Table of counted strings for Process States
                                                                         GLOBAL BIND
                                                                                                                                                  CSTRING('BAD')
CSTRING('COLPG')
CSTRING('MWAIT')
                                                                         STATELIST = UPLIT (
                                                                                                                                                  CSTRING('CEF')
CSTRING('PFW')
CSTRING('LEF')
CSTRING('LEFO')
CSTRING('HIBO')
CSTRING('HIBO')
CSTRING('SUSP')
                                                                                                                                                   CSTRING('SUSPO')
```

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000

000

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TEM
```

Page

! rtn to xlate & annex a string to SYS\$OUTPUT buffer ! rtn to acquire virtual memory

! rtn to annex a cursor positioning esc seq to SYS\$OUTPUT

1460

1461

1462

1464 1465 1466

VTWIDTH :

EXTERNAL ROUTINE
PUT_TO_SCREEN ,
LIBSGET_VM
SCR\$SET_CURSOR ;

TEM VO4

TEMPLATE

; 392

1524 2

ITMSTR: REF VECTOR[,BYTE];

16-Sep-1984 02:18:37

VAX-11 Bliss-32 V4.0-742 [MONTOR.SRC]TEMPLATE.B32:1

age ,9

! item byte string

; R

TEM VO4

.....

TE

:::

END:

E 5 16-Sep-1984 02:18:37 14-Sep-1984 12:45:05

VAX-11 Bliss-32 V4.0-742 [MONTOR.SRC]TEMPLATE.B32;1

Page 13 (6)

: 524

1654 4

END

EX

```
TEMPLATE
                                                                                                                                                    16-Sep-1984 02:18:37
14-Sep-1984 12:45:05
                                                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742 [MONTOR.SRC]TEMPLATE.B32;1
       ELSE
                                                                                                                                                                                        ! bar graph display -- set up ctrl string for it
                                                                          BEGIN
                                                                              Now build the fao control string to output a bar graph at run time. The control string contains for each line: position row and column to left of grid
                                     write count
re-position row and column inside grid
output 'n' bar characters
delete to end of line
                                                                        LOCAL
XPOSBAR
                                                                                                                                                                                        ! column number of beg of bar
! column number of count field
                                                                                   XPOSCOUNT :
                                                                                                                                                                                        ! starting column of count field
! starting column of bar field
! start filling ctrl string (alternate graphics)
                                                                          XPOSCOUNT = 30 ;
                                                                         XPOSBAR = 39;
(.POINTER) <0.16> = ALTSET;
POINTER = .POINTER + 2;
DCDB[CDB$B_FAOPRELEN] = 2;
                                                                                                                                                                                            skip to next position
                                                                                                                                                                                         ! ... and store length of FAO prefix
                                                                          INCR YPOS FROM FIRST_DATA_LINE TO LAST_DATA_LINE ! loop once for each line in ! ... data portion of screen
                                                                                   BEGIN
                                                                                   IF .SCR_DATA_LINE[.YPOS-1]
THEN
                                                                                                                                                                                                           ! if this is a data line,
                                                                                        BEGIN
(.POINTER) < 0,16 > = CURSOR;
(POINTER = .POINTER + 2) < 0,8 > = .YPOS;
(POINTER = .POINTER + 1) < 0,8 > = .XPOSCOUNT;
(POINTER = .POINTER + 1) < 0,8 > = .XPOSCOUNT;
(POINTER = .POINTER + 1) < 0,8 > = .XPOSCOUNT;
(POINTER = .POINTER + 2) < 0,8 > = .YPOS;
(POINTER = .POINTER+9) < 0,16 > = CURSOR;
(POINTER = .POINTER+9) < 0,8 > = .YPOS;
(POINTER = .POINTER+1) < 0,8 > = .XPOSBAR;
(POINTER = .POINTER + 1);
(POINTER = .POINTER + 1);
(POINTER = .POINTER + 1);
(POINTER = .POINTER + 3) < 0,8 > = .BARCHAR;
(POINTER = .POINTER + 3) < 0,8 > = .BARCHAR;
(POINTER = .POINTER + 3) < 0,8 > = .BARCHAR;
(POINTER = .POINTER + 2);
IF .YPOS EQL FIRST DATA_LINE
THEN DCDBCCDB$B_FAOSEGLEN] = .POINTER - .DCDBCCDB$A_FAOCTR] - .DCDBCCDB$B_FAOPRELEN];

! compute length of a single segment
                                     1689
1690
                                      1691
                                     1692
1693
                                     1694
1695
                                     1696
1697
                                      1698
                                     1699
1700
1701
                                                                                   END:
                                                                         (.POINTER) < 0.16 > = REGSET ;
POINTER = .POINTER + 2 ;
                                                                                                                                                                                   ! restore normal char set
! update position
                                     1702
1703
                                                                          END:
                                     1704
1705
                                     1706
1707
                                                                     Insert length of created string into CDB
                                      1708
                                      1709
                                                                 DCDB[CDB$L_FAOCTR] = .POINTER - .DCDB[CDB$A_FAOCTR];
                                                       END ;
RETURN .NORMAL ;
                                      1710
                                                                                                                                                                                        ! return with no errors
```

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.BYTE

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```
16-Sep-1984 02:18:37
14-Sep-1984 12:45:05
TEMPLATE
                                                                                                             VAX-11 Bliss-32 V4.0-742
[MONTOR.SRC]TEMPLATE.B32;1
                                                                                                                                                          Page
V04-000
                                                                49
                                                                                             .ASCII
                                                                                                      /HIB/
                                                                          00081 P.AAY:
00082
00086 P.AAZ:
00087
00088 P.ABA:
0008C
000C1 P.ABB:
                                                                                            .BYTE
                                                                                             .ASCII
                                                                                                      \HIBO\
                                                                                            .BYTE
                                                       50
                                                                55
                                                                                             .ASCII
                                                                                                      \SUSP\
                                                                                            .BYTE
                                                      50
                                                            53
                                                                55
                                                                                                      \SUSPO\
                                                                                             .ASCII
                                                                                            .BYTE
                                                            47
                                                                50
                                                                                                      \FPG\
                                                                                             .ASCII
                                                                           000C5 P.ABC:
                                                                                            .BYTE
                                                                          000C6
000C9 P.ABD:
                                                            4D
                                                                4F
                                                                                                      \COM\
                                                                                             .ASCII
                                                           40
                                                                4F
                                                                                                      \COMO\
                                                                                             .ASCII
                                                                          000CE P.ABE:
                                                                                            .BYTE
                                                                55
                                                            52
                                                                                            .ASCII
                                                                                                      \CUR\
                                                                           000D2
                                                                                            .BLKB
                                                                                            P.AAV, P.AAW, P.AAX, P.AAY, P.AAZ, P.ABA, -
P.ABB, P.ABC, P.ABD, P.ABE
00000000, 00000000, 00000000,
                                     00000000
                                                 00000000, 00000000, 00000000, 00000000,
                                                                           000D4 P.AAP:
00000000 00000000 00000000
                                                                           000EC
                                     00000000
                                                 00000000 00000000
                                                                           00104
                                                                           00110 P.ABG:
                                                                                            .BYTE
                                                           55
                                                                57
                                                                           00111
                                                                                            .ASCII
                                                                                                      \RWUDF\
                                                                          00116 P.ABH:
00117
                                                                                            .BYTE
                                                       53
                                                           41
                                                                57
                                                                                             .ASCII
                                                                                                      \RWAST\
                                                                           0011C P.ABI:
                                                                                            .BYTE
                                                                57
                                                                           0011D
                                                                                             .ASCII
                                                           4D
                                                                                                      \RWMBX\
                                                                          00122 P.ABJ:
                                                                                            .BYTE
                                                       50
                                                           4E
                                                                57
                                                                                             .ASCII
                                                                                                      \RWNPG\
                                                                          00128 P.ABK:
                                                                                            .BYTE
                                                           50
                                                                57
                                                                                             .ASCII
                                                                                                      \RWPGF\
                                                                           0012E P.ABL:
                                                                                            .BYTE
                                                           50
                                                                57
                                                      41
                                                                           0012F
                                                                                             .ASCII
                                                                                                      \RWPAG\
                                                                          00134 P.ABM:
                                                                                            .BYTE
                                                           42
                                                                57
                                                      52
                                                                                             .ASCII
                                                                                                      \RWBRK\
                                                                           0013A P.ABN:
                                                                                            .BYTE
                                                           49
                                                                57
                                                                           0013B
                                                                                             .ASCII
                                                                                                      \RWIMG\
                                                                           00140 P.ABO:
                                                                                            .BYTE
                                                           51
                                                                57
                                                      55
                                                                           00141
                                                                                             .ASCII
                                                                                                      \RWQUO\
                                                                          00146 P.ABP:
                                                                                            .BYTE
                                                                57
                                                           40
                                                                           00147
                                                                                             .ASCII
                                                                                                      \RWLCK\
                                                                           0014C P.ABQ:
                                                                                            .BYTE
                                                                          0014D
00152 P.ABR:
00153
                                                      57
                                                           53
                                                                57
                                                                                             .ASCII
                                                                                                      \RWSWP\
                                                                                            .BYTE
                                                           4D
                                                                57
                                                                                             .ASCII
                                                                                                      \RWMPE\
                                                                          00158 P.ABS:
                                                                                            .BYTE
                                                      50
                                                                57
                                                                                                      \RWMPB\
                                                           40
                                                                                             .ASCII
                                                                          0015E P.ABT:
                                                                                            .BYTE
                                                           53
                                                                57
                                                                                             .ASCII
                                                                                                      \RWSCS\
                                                                          00164 P.ABU:
00165
                                                                                            .BYTE
                                                                57
                                                                                            .ASCII
                                                                                                      \RWCLU\
                                                                           0016A
                                                                                            .BLKB
                                                                          0016C P.ABF:
                                                                                            ADDRESS P.ABG, P.ABH, P.ABI, P.ABJ, P.ABK, -
P.ABL, P.ABM, P.ABN, P.ABO, P.ABP, P.ABQ, -
P.ABR, P.ABS, P.ABT, P.ABU
00000000, 00000000, 00000000,
                                     00000000
                                     00000000
                                                 00000000, 000000000
00000000, 00000000, 00000000,
                                     00000000
                                                 00000000, 00000000
                                                                           00190
                                                                          001A8 P.ABW:
                                                                                            .BYTE
                                                  58 45 54 55
                                                                                            .ASCII .\MUTEX\
                                                                                            .BLKB
                                                              00000000
                                                                          001B0 P.ABV:
                                                                                            .ADDRESS P.ABW
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TEMPLATE
                                                                                                                               16-Sep-1984 02:18:37
14-Sep-1984 12:45:05
                                                                                                                                                                              VAX-11 Bliss-32 V4.0-742
[MONTOR.SRC]TEMPLATE.B32;1
                                                                                                                                                   .PSECT SOWNS, NOEXE, 2
                                                                                                                       00000 TOPSTR10:
                                                                                                                                                   .BYTE 44
.ASCII \ [!30w,!30w] !16AC!AC!5<!#UL!>!AC\
                                                                                                                      00001
00010
0001F
00023
00024
00029
0002A
               20 5D 57 4F 33 21 2C 57 55 23 21 3C 35 21 43 41
                                                                                                                                                  .BYTE
.ASCII
.BYTE
.ASCII
.BYTE
.ASCII
                                                                                                                                                                  27
\F!#*a\
27
\G\
27
                                                                                                      21
                                                                                       2A
                                                                                              23
                                                                                                                      0002C
0002D
00030 SCR_PAT
                                                                                                   00004000
                                                                                                                                                 TERN:
                                                                                                                                                   .LONG
                                                                                                   0000A000
00024800
0002A800
00055400
000A5280
                                                                                                                      00034
00038
0003C
00040
00044
00048
00050
00054
00058
                                                                                                                                                   .LONG
                                                                                                                                                                  174080
349184
676480
                                                                                                                                                   .LONG
                                                                                                                                                   .LONG
                                                                                                                                                   .LONG
                                                                                                    08AAA000
                                                                                                                                                   .LONG
                                                                                                    002AAA80
000E7380
                                                                                                                                                   .LONG
                                                                                                                                                   .LONG
                                                                                                    001B6D80
                                                                                                                                                   .LONG
                                                                                                                                                   LONG
LONG
LONG
LONG
                                                                                                    001BBB80
                                                                                                   003BBB80
003DF780
                                                                                                                      00060
00064
00068
0006C
00070
                                                                                                  .LONG
                                                                                                                                                   .LONG
                                                                                                                                                   LONG
LONG
LONG
LONG
LONG
                                                                                                                      00074
00078
0007C
                                                                                                                       00080
                                                                                                                      00084
00088
                                                                                                                       0008C
                                                                                                                                                   .LONG
                                                                                                                                  SCR_DATA_LINE:
                                                                                                                       00090
                                                                                                                                   REGSET==
TABSTR=
                                                                                                                                                                          18203
P.AAA
                                                                                                                                  TABSTR PC=
COUNTSTR=
                                                                                                                                                                          P.AAB
                                                                                                                                                                          P.AAC
                                                                                                                                  COUNTSTR=
CRSTR=
CLRSTR=
DELSTR=
GRAPHICS_ON=
GRAPHICS_OFF=
HOMESTR=
LFSTR=
NLSTR=
REPTSTR=
SETVT55=
                                                                                                                                                                          P.AAD
                                                                                                                                                                          P.AAE
                                                                                                                                                                          P.AAF
                                                                                                                                                                          P.AAG
P.AAH
                                                                                                                                                                          P.AAI
                                                                                                                                                                          P.AAJ
                                                                                                                                                                         P.AAK
P.AAL
```

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TEMPLATE V04-000		J 5 16-Sep-1984 02:18:37 VAX-11 Bliss-32 V4.0-742 Page 18 14-Sep-1984 12:45:05 [MONTOR.SRCJTEMPLATE.B32:1 (7)
		TOPSTR20= VHSTSTR20= VHSTSTR20= STATELIST== RWAITLIST== P.ABF RWAITLIST== P.ABF P.ABV EXTRN REXTRN RAME_COL_MFSUM_MAX NAME REXTRN RAME_COL_MFSUM_MAX NAME REXTRN RAME_COL_MFSUM_MAX NAME REXTRN REXTRN RAME_COL_MFSUM_MAX NAME REXTRN REXTRN RAME_COL_MFSUM_MAX NAME REXTRN
		PSECT SCODES, NOWRT, 2
		OFFC 00000 .ENTRY TEMPLATE, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-; 1467
		5E
		58
00000000	EF	50
00000000	EF	10 00 00000000 EF40 F0 00047 INSV SCK_PATTERN-4LTEMSJ, WU, W24, - ; 1340
00000000	EF	OF 07 36 A8 FO 00057 6\$: INSV 54(R8), #7, #15, SCR_DATA_LINE 1547 05 44 A1 03 E0 00061 7\$: BBS #3, 68(R1), 8\$ 1552 0A 4C A8 03 E1 00066 BBC #3, 76(R8), 9\$ 1553 0000000G 00 00G 8F 90 0006B 8\$: MOVB #NAME_COL_MFSUM, NAME_COL 1553
		42 A8 95 00075 9\$: TSTB 66(R8) 00000000G 00 00G 8F 90 0007A MOVB #NAME_COL_TAB, NAME_COL 1555 08 11 00082 BRB 11\$
		00000000G 00

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					16-Sep-	1984 02:18 1984 12:45	:37 VAX-11 Bliss-32 V4.0-742 :05 [MONTOR.SRC]TEMPLATE.B32;1	Page 19 (7)
		54 00	1C A8 4C A8 42 A8 07 000000000 00 01		09B	MOVL BLBC TSTB	28(R8), ITMSTR 76(R8), 12\$ 66(R8) 12\$	1563
52	000000006	54 8F	000000006 00	C3 000	09E 0A0 0A7 12\$:	MOVAB SUBL3	TIMETO CVC ALL TIMETO	1566 1568
38	00000000.	50 EF 50	FF A2 50 6544	9E 000	OAF OB1 13\$: OB5 OBD	BRB MOVAB BBC MOVZBL	#1, #FIRST_DATA_LINE, YPOS 15\$ -1(R2), R0 R0, SCR_DATA_LINE, 15\$ (I)[ITMSTR], NEXT #17, R0 PERFTABLE[R0], DIDB 4(DIDB) NAME	1582 1585 1586
		53 56 7E	00000000000000000000000000000000000000	DO 000	000	MULL2 MOVAB MOVL MOVZBL PUSHAB	#17, RO PERFTABLE[RO], DIDB 4(DIDB), NAME NAME_COL, -(SP) (ROW_OFFSET)[YPOS] #2, POSITION NAME	1587 1588
	00000000V 00000000V	EF EF		FB 000 FB 000	0DA 0E1 0E3	CALLS PUSHL CALLS BLBC ADDL2	#2, POSITION NAME #1, OUTPUT 16(DIDB), 14\$	1589
		EF 05 55	10 A3 02 02 02	11 000	OEE OF1	BLBC ADDL2 BRB INCL	16(DIDB), 14\$ #2, I 15\$	1590
B4		52 5A	10 A3 02 02 02 02 05 04 A8 50 6A 04 50 0A	9E 000 04 000 05 000 12 000 06 000	103 105 107	MOVAB CLRL TSTL BNEQ INCL	#LAST_DATA_LINE, YPOS, 13\$ 4(R8), R10 R0 (R10) 17\$ R0	1592 1568 1603
		03	000000006 00 0140	E9 001	109 10B 17\$:	BRB BLBC BRW	18\$ DISPLAYING, 18\$ 32\$	
	04	18 AE	000000006 8F	DO 00	115 18\$: 118	BLBC MOVL PUSHL	WFAOCTR_SIZE, FAOCSIZE	1608 1611 1612
	000000006	00	08 AE 02 50	FR 001	125	PUSHAB CALLS BLBS	FAOCSIZE #2, LIBSGET_VM STATUS, 19\$	1613
		56	42 A8 OF O0000000G 00	04 00 00 95 00 13 00 00 00	126 126 130 19\$: 133	RET MOVL TSTB	(R10), POINTER	1616 1618
03	44	50 A0	00000000G 00 0099	E0 001	138 13F	BEGL MOVL BBS BRW	(R10), POINTER 66(R8) 20\$ MRBPTR, R0 #3, 68(R0), 20\$ 28\$ #3, 76(R8), 21\$	
09	40	A8 50	00000000 8F 07	E1 001 D0 001	144 147 20\$:	BBC MOVL	#3, 76(R8), 21\$ #WIDE_NAME_SIZE, COL_OFFSET	1624 1625
6E		50 51 51	000000006 8F 000000006 00 50	DO 00.	155 218:	BRB MOVL MOVZBL ADDL3	#3, 76(R8), 21\$ #WIDE_NAME_SIZE, COL_OFFSET 22\$ #MAX_NAME_SIZE, COL_OFFSET NAME_COL, R1 COL_OFFSET, R1, XPOS 65(R8)	1626 1627
09	44	50 A0 59	000000006 8F 000000006 00 50 41 A8 000000006 00 000000006 00 14	DO 001	15¢ 22\$: 163 167 16A 171	CLRB MOVL BBC	65(R8) MRBPTR, R0 #3, 68(R0), 23\$ MF\$UMSTR, CUR_TABSTR	1628 1630
		59 09 59	00000000 00 14 00000000 EF	9E 001 E9 001 9E 001	176 170 17f 23\$:	MOVAB BRB BLBC	69(R8), 24\$	1631 1632 1633
		24	00000000 Et	AE 00	100	MOVAB	TABSTR_PC, CUR_TABSTR	; 1033

Ps:

TEMPLATE V04-000					16-Sep-19 14-Sep-19	984 02:18:37 VAX-11 Bliss-32 V4.0-742 984 12:45:05 [MONTOR.SRC]TEMPLATE.B32;1	Page (7)
		57 00000000G	59 00000000°	07 EF 01	11 0018A 9E 0018C 24\$: C3 00193 25\$:	BRB 25\$ MOVAB TABSTR, CUR_TABSTR SUBL3 #1, #FIRST_DATA_LINE, YPOS BRB 27\$	1634 1636
		25 200000001	50 FF	A7	11 0019B 9E 0019D 26\$:	MUVAB -1(R/), RU	1639
		5D 00000000.	86 591B	8F 5B	BO 001A9	MOVW #22811, (POINTER)+	1642
		86	86	5B 6E	81 001AE 90 001B2	ADDB3 RCW_OFFSET, YPOS, (POINTER)+ MOVB XPOS, (POINTER)+	: 1642 : 16-3 : 1644 : 1646
		66 01	50 A9	50	9A 001B5 28 001B8	MOVZBL (CUR_TABSTR), RO MOVC3 RO, T(CUR_TABSTR), (POINTER)	
			50	69 50	9A 001BD C0 001C0	ADDB3 RGW OFFSET, YPOS, (POINTER)+ MOVB XPOS, (POINTER)+ MOVZBL (CUR_TABSTR), RO MOVC3 RO, T(CUR_TABSTR), (POINTER) MOVZBL (CUR_TABSTR), RO ADDL2 RO, POINTER CMPL YPOS, #FIRST_DATA_LINE BNEO 278	1647
		0000000G	8F	57 0A	D1 001C3 12 001CA	CMPL YPOS, #FIRST_DATA_LINE	1648
	40	50 A8 BF	56 50 57 000000006	64	C3 001CC 83 001D0	BBC RO, SCR_DATA_LINE, 27\$ MOVW #22811, (POINTER)+ ADDB3 RCW_OFFSET, YPOS, (POINTER)+ MOVB XPOS, (POINTER)+ MOVZBL (CUR_TABSTR), RO MOVC3 RO, T(CUR_TABSTR), (POINTER) MOVZBL (CUR_TABSTR), RO ADDL2 RO, POINTER CMPL YPOS, #FIRST_DATA_LINE BNEQ 27\$ SUBL3 (R10), POINTER, RO SUBL3 (R10), POINTER, RO SUBB3 65(R8), RO, 64(R8) AOBLEQ #LAST_DATA_LINE, YPOS, 26\$ BRB 31\$	1649
		BF	57 00000000G	A8 8F 7F	F3 001D6 27\$:	AOBLEQ #LAST_DATA_LINE, YPOS, 26\$	1636 1618 1670 1671 1672 1674
			57 58	1E	00 001E0 28\$:	MOVI #30. XPOSCOUNT	1670
		41	86 461B	8F	BO 001E6	MOVL #39, XPOSBAR MOVW #17947, (POINTER)+ MOVB #2, 65(R8) SUBL3 #1, #FIRST_DATA_LINE, YPOS	1672
		59 000000006	8F	01	90 001EB C3 001EF	SUBL3 #1, #FIRST_DATA_LINE, YPOS	1676
		45 000000001	50 FF	A9 50	9E 001F9 298:	MOVAD -1/DO\ DO	1679
		4C 00000000°	86 591B	8F	BO 00205 90 0020A	BBC RO, SCR_DATA_LINE, 30\$ MOVW #22811, (POINTER)+	1682
			86 86	57	90 0020A	MOVB YPOS, (POINTER)+ MOVB XPOSCOUNT, (POINTER)+	1684
		66.00000000.	56 56	09	28 00210 C0 00218	BBC RO, SCR_DATA_LINE, 30\$ MOVW #22811, (POINTER)+ MOVB YPOS, (POINTER)+ MOVB XPOSCOUNT, (POINTER)+ MOVC3 #9, COUNTSTR, (POINTER) ADDL2 #9, POINTER MOVW #22811, (POINTER)+ MOVB YPOS, (POINTER)+	; 1682 ; 1683 ; 1684 ; 1686 ; 1687
			86 591B	8F 59	B0 0021B 90 00220	MOVW #22811, (POINTER)+ MOVB YPOS, (POINTER)+	1688
86		18	00 00000000°	SB EF 02	90 00223 F0 00226	MOVB XPOSBAR, (POINTER)+ INSV REPTSTR, #0, #24, (POINTER)+	; 1689 ; 1691 ; 1692
			56	02	CO 0022F 90 00232	ADDL2 #2, POINTER MOVB BARCHAR, (POINTER)+	
		0000000G	86 4818	00 8F 59	BO 00239 D1 0023E	MOVB XPOSBAR, (POINTER)+ INSV REPTSTR, #0, #24, (POINTER)+ ADDL2 #2, POINTER MOVB BARCHAR, (POINTER)+ MOVW #19227, (POINTER)+ CMPL YPOS, #FIRST_DATA_LINE	1693 1695
				OA 6A	12 00245	MOVB XPOSBAR, (POINTER)+ INSV REPTSTR, #0, #24, (POINTER)+ ADDL2 #2, POINTER MOVB BARCHAR, (POINTER)+ MOVW #19227, (POINTER)+ CMPL YPOS, #FIRST_DATA_LINE BNEQ 30\$ SUBL3 (R10), POINTER, R0 SUBB3 65(R8), R0, 64(R8) AOBLEQ #LAST_DATA_LINE, YPOS, 29\$ MOVW #18203, (POINTER)+ SUBL3 (R10), POINTER, (R8)	1696
	40	50 A8 A0	56 50 59 000000000	A8 8F 8F	83 0024B F3 00251 30\$:	SUBBS 65 (R8), RO, 64 (R8)	
			59 00000000G 86 471B	8F	BO 00259	MOVW #18203, (POINTER)+	1701
		68	50 00000000G	6A 00	C3 0025E 31\$: D0 00262 32\$: 04 00269	BNEQ 30\$ SUBL3 (R10), POINTER, R0 SUBB3 65(R8), R0, 64(R8) AOBLEQ #LAST DATA_LINE, YPOS, 29\$ MOVW #18203, (POINTER)+ SUBL3 (R10), POINTER, (R8) MOVL NORMAL, R0 RET	1676 1701 1709 1711 1712

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; Routine Size: 618 bytes, Routine Base: \$CODE\$ + 0000

```
M 5
16-Sep-1984 02:18:37
14-Sep-1984 12:45:05
TEMPLATE
                                                                                                                                                      Page
                             GLOBAL ROUTINE OUTPUT( STRING ) =
   FUNCTIONAL DESCRIPTION:
                                       Routine to output counted string with no carriage control.
                                INPUTS:
                                       STRING - address of counted ascii string.
                                OUTPUTS:
                                       none
                             PUT_TO_SCREEN (.(.STRING)<0,8>, .STRING+1)
END;
                                                                                                   OUTPUT, Save nothing #1, STRING, -(SP) astring, -(SP) #2, PUT_TO_SCREEN
                                                                   0000 00000
                                                                                          .ENTRY
                                                                                                                                                           1713
1731
                              7E
                                                                     C1 9A
                                                                         00007
                                                                                          MOVZBL
                                                                     FB
04
                                  0000000G
                                                                         0000B
                                                                                          CALLS
                                                                                                                                                           1732
                                                                         00012
; Routine Size: 19 bytes,
                                    Routine Base: $CODE$ + 026A
                             ROUTINE POSITION( YPOS , XPOS ) =
   608
609
610
611
613
614
616
617
618
619
622
623
627
                             BEGIN
                               FUNCTIONAL DESCRIPTION:
                                       Routine to call SCRPKG to position screen for characters.
                                INPUTS:
                                       YPOS - y position ( row number , one origin)
                                       XPOS - x position ( column number , one origin)
                                OUTPUTS:
                                       none
                              SCR$SET_CURSOR (.YPOS, .XPOS)
                                                                    ! set cursor to the requested position
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TEMPLATE
V04-000
                                                                                           16-Sep-1984 02:18:37
14-Sep-1984 12:45:05
                                                                                                                              VAX-11 Bliss-32 V4.0-742
[MONTOR.SRC]TEMPLATE.B32;1
                                                                                                                                                                                  Page
                                                                               0000 00000 POSITION:
                                                                                                                     Save nothing YPOS, -(SP) #2, SCR$SET_CURSOR
                                                                                                          . WORD
                                                                                                                                                                                       1735
1754
                                                                                     00000
00000
00000
                                                                                 7D
FB
04
                                                                    04
                                                                                                          MOVQ
                                        0000000G
                                                                                                         CALLS
                                                                                                                                                                                       1755
; Routine Size: 14 bytes.
                                          Routine Base: $CODE$ + 027D
                                                                                !End of module
                                                       PSECT SUMMARY
                                                                                          Attributes
           Name
                                              Bytes
                                                             NOVEC, WRT, RD , NOEXE, NOSHR, NOVEC, NOWRT, RD , NOEXE, NOSHR, NOVEC, NOWRT, NORD , NOEXE, NOSHR,
                                                                                                          LCL.
                                                                                                                   REL.
REL.
ABS.
                                                                                                                            CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(0)
    SPLITS
    $CODE$
       ABS
                                             Library Statistics
                                                                ----- Symbols -----
                                                                                                                              Processing
                                                                                                             Pages
           File
                                                                Total
                                                                             Loaded
                                                                                         Percent
                                                                                                            Mapped
                                                                                                                              Time
    $255$DUA28:[SYSLIB]LIB.L32:1
                                                                18619
                                                                                                             1000
                                                                                                                                00:01.9
                                                         COMMAND QUALIFIERS
           BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS$: TEMPLATE/OBJ=OBJ$: TEMPLATE MSRC$: TEMPLATE/UPDATE=(ENH$: TEMPLATE)
                      651 code + 583 data bytes
00:33.4
01:07.0
: 3157
  Run Time:
  Elapsed Time:
  Lines/CPU Min:
```

Syn

: Lexemes/CPU-Min: 40116 : Memory Used: 351 pages : Compilation Complete

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